





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P14462WO	FOR FURTHER ACTIO	See Notifi Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day	/month/year)	Priority date (day/month/year)
PCT/DE2003/002929	03 September 2003 (0	3.09.2003)	05 September 2002 (05.09.2002)
International Patent Classification (IPC) or n H01L 51/00	national classification and IPC		
Applicant	SIEMENS AKTIENGES	ELLSCHAF	Т
This international preliminary exames and is transmitted to the applicant and t		ed by this Inter	national Preliminary Examining Authority
2. This REPORT consists of a total of	sheets, inclu	ding this cover	sheet.
amended and are the basis for	nied by ANNEXES, i.e., sheet or this report and/or sheets con e Administrative Instructions	taining rectific	ion, claims and/or drawings which have been ations made before this Authority (see Rule
These annexes consist of a to	otal ofsheet	i .	
3. This report contains indications rela	ating to the following items:	-	
I Basis of the report			
II Priority			:
III Non-establishment	of opinion with regard to nov	elty, inventive	step and industrial applicability
IV Lack of unity of in	vention		
	nt under Article 35(2) with regulations supporting such states	ard to novelty, nent	inventive step or industrial applicability;
VI Certain documents	cited		
VII Certain defects in	the international application		
VIII Certain observation	ns on the international applica	tion	
		_	
Date of submission of the demand	Do	te of completion	n of this report
		-	,
05 April 2004 (05.04	3.2004)	15 I	December 2004 (15.12.2004)
Name and mailing address of the IPEA/EI	P Au	thorized officer	
Facsimile No.	Te	lephone No.	



Internation No.

PCT/DE2003/002929

	s of the rep	<u></u>	
1. With	h regard to	the elements of the international application:*	1
	the inter	rnational application as originally filed	
$\overline{\boxtimes}$	the desc	cription:	
	pages	1-5	, as originally filed
	pages		, filed with the demand
	pages	, filed with the letter of	
	the clair	ims:	
	pages		, as originally filed
	pages	, as amended (together with any sta	atement under Article 19
	pages		, filed with the demand
l	pages	, filed with the letter of	
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	pages		, as originally filed
	pages	1/2-2/2	, filed with the demand
1	pages	, filed with the letter of	
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▎└	_	ence listing part of the description:	as originally filed
	pages pages		, filed with the demand
	pages	, filed with the letter of	<u> </u>
l the	ith regard t	to the language, all the elements marked above were available or furnished to this Authority application was filed, unless otherwise indicated under this item.	in the language in which
Th	ese elemer	nts were available or furnished to this Authority in the following language	which is:
	=	nguage of a translation furnished for the purposes of international search (under Rule 23.1(b))	
		nguage of publication of the international application (under Rule 48.3(b)).	
	or 55.	·	
3. W	ith regard eliminary	d to any nucleotide and/or amino acid sequence disclosed in the international appl examination was carried out on the basis of the sequence listing:	ication, the international
	==	ined in the international application in written form.	
╽┝	=	together with the international application in computer readable form.	
╽┟		shed subsequently to this Authority in written form.	
╽┟		shed subsequently to this Authority in computer readable form.	
	interr	statement that the subsequently furnished written sequence listing does not go beyon national application as filed has been furnished.	}
		statement that the information recorded in computer readable form is identical to the wr furnished.	itten sequence listing has
4. [The a	amendments have resulted in the cancellation of:	
1		the description, pages	
		the claims, Nos.	
		the drawings, sheets/fig	· -
5. [This to	report has been established as if (some of) the amendments had not been made, since they had the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ave been considered to go
ii a	n this repo nd 70.17).		amendments (Rule /0.10
** A	lny replace	ement sheet containing such amendments must be referred to under item 1 and annexed to this	report.

INTERNATIONAL PRELIMINATION REPORT

Internation plication No.
PCT/DE 03/02929

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

	Statement		,	
	Novelty (N)	Claims		YES
		Claims	1-8	NO
	Inventive step (IS)	Claims		YES
	Claims	1-8	NO	
Industrial applicability (IA)	Claims	1-8	YES	
	Claims		NO	

2. Citations and explanations

Reference is made to the following documents:

- D1: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS
 SERVICE, COLUMBUS, OHIO, US; 24 June 2002 (2002-0624), CAMAIONI, NADIA ET AL: "Solar cells based on
 poly(3-alkyl)thiophenes and [60]fullerene: a
 comparative study" XP002286364 found in the STN
 Database accession no. 2002:470013
- D2: HUYNH, WENDY ET AL: "Efficient nanorod and polymer photovoltaics from thermal treatment" PROCEEDINGS ELECTROCHEMICAL SOCIETY, 2001-10 (PHOTOVOLTAICS FOR THE 21ST CENTURY II), 195-198 CODEN: PESODO; ISSN: 0161-6374, 2001, XP001182311 10-2001
- D3: ARIAS, A.C. ET AL.: "Vertically segregated polymer-blend photovoltaic thin-film structures through surface-mediated solution processing" APPLIED PHYSICS LETTERS, 80(10), 1695-1697 CODEN: APPLAB; ISSN; 0003-6951, 11 March 2002 (2002-03-11), XP001104270
- The present application does not meet the requirements of PCT Article 33(1) since the subject matter of claims 1 to 8 is not novel (PCT Article 33(2)).

D1 discloses (the references in brackets are to that document):

Photovoltaic elements consisting of mixtures of poly(3-alkylthiophenes) and fullerenes. The improvement in the efficiency of the cells by heating is described.

D2 and D3 do not concern the above mixtures but also describe production methods which include both heat treatment and contact between the active layer and solvents.

- Dependent claims 2 to 8 do not contain any features which, combined with the features of any claim to which they refer, meet the PCT novelty and inventive step requirements; see D1 to D3 and the relevant passages cited in the search report.
- 3. It should further be noted that the present wording of claim 1 at least is very strange. Characterizing the treatment of an active layer with a solvent in that the active layer comes into contact with solvent molecules or characterizing the treatment by tempering with heat appears trivial and does not meet the requirements for the two-part form of claims, as set out in PCT Article 6 and PCT Rule 6.3.